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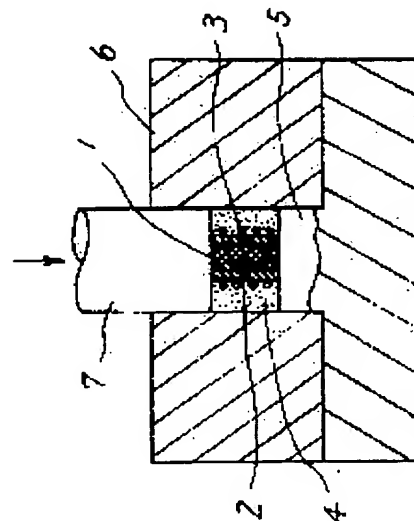
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(54) SYNTHESIZING METHOD FOR CUBIC SYSTEM BORON NITRIDE

(57)Abstract:

PURPOSE: To reduce the time required to convert a reaction sample contg. hexagonal system boron nitride into cubic system boron nitride and to raise percentage of recovery by holding the sample at a predetermined high temp. and applying a high press. as a dynamic press. due to striking energy to the sample.

CONSTITUTION: Hexagonal system boron nitride 1 press formed into, e.g. a cylindrical shape is put into alumina pipe 2, and a little H₂O is added as catalyst. Platinum resistance wire 3 is wound round pipe 2, and pipe 2 is buried in talc press. medium 4. Medium 4 is then set in cylinder 6 combined with lower punch 5, and upper punch 7 is mounted on medium 4. After heating pipe 2 to 1300°C by supplying an electric current to wire 3, the ram of a forging machine is dropped onto punch 7 to apply striking energy of 3 tons meter or more to sample 1. Thus, the resulting hexagonal system boron nitride is recovered by almost 100%. By adding a flux to sample 1 hexagonal system boron nitride is obtd. more reliably. The flux usually includes Ia, IIa and IIIa group elements and metallic elements such as Sb and Sn.



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